

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G10L19/08

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, IBM-TDB

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>HOSSEIN NAJAF-ZADEH AND PETER KABAL:          "Narrowband Perceptual Audio Coding:          Enhancements for Speech"          PROC. EUROPEAN CONF. SPEECH COMMUN.          TECHNOL.,          vol. 3, September 2001 (2001-09), pages          1993-1996, XP007004767          AALBORG, DENMARK          page 1994, right-hand column, paragraph          2.2.1-2.2.2</p> <p>-----</p> <p style="text-align: center;">-/--</p>	1-19



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

24 September 2004

Date of mailing of the international search report

07/10/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DEN BRINKER ET AL.,: "Parametric Coding for High-Quality Audio" AUDIO ENGINEERING SOCIETY, CONVENTION PAPER 5554, AT THE 112TH CONVENTION, 10 May 2002 (2002-05-10), - 13 May 2002 (2002-05-13) XP002297946 MUNICH, GERMANY page 3, right-hand column, last paragraph - page 4, right-hand column, paragraph 1 page 5, left-hand column, line 34 - line 38 figure 4 -----	1-19
Y	DOH-SUK KIM ET AL: "On the perceptual weighting function for phase quantization of speech" IEEE WORKSHOP ON SPEECH CODING. PROCEEDINGS. MEETING THE CHALLENGES OF THE NEW MILLENNIUM, XX, XX, 17 September 2000 (2000-09-17), pages 62-64, XP002171475 pag. 62- 63, section 2.2 -----	2,11,15
A	AHMADI S ET AL: "Minimum-variance phase prediction and frame interpolation algorithms for low bit rate sinusoidal speech coding" ISCAS 2000 IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, vol. 3, 28 May 2000 (2000-05-28), pages 730-733, XP010502635 page 730, left-hand column, line 1 - page 731, right-hand column, line 22 -----	1-19
A	US 6 577 995 B1 (KIM ET AL) 10 June 2003 (2003-06-10) column 1, line 46 - line 48 column 3, line 65 - column 4, line 64 -----	2,11,15
P,A	BRINKER DEN A C ET AL: "Phase transmission in a sinusoidal audio and speech coder" PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, XX, XX, 10 October 2003 (2003-10-10), pages 1-7, XP009028272 the whole document -----	1-19

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

IB2004/051172

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 6577995	B1	10-06-2003	KR 2001005587 A	29-11-2001
			DE 10049464 A1	22-11-2001
			FR 2809221 A1	23-11-2001
			GB 2362549 A ,B	21-11-2001
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			JP 2001331200 A	30-11-2001